

WEST Search History

DATE: Thursday, September 04, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>		
side by side		result set			
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;</i>					
<i>PLUR=YES; OP=AND</i>					
L8	L7 and ((nodul\$8 or dendrit\$8 or spher\$8 or cluster\$3 or island\$3 or discontinuous or porous) near3 (layer or film or coat\$8 or deposit\$8))	15	L8		
L7	((direct adj voltage) near10 (alternating adj voltage))	1453	L7		
L6	L5 not l3	2	L6		
L5	L4 and ((direct adj voltage) near10 (alternating adj voltage)) (cataly\$10 or (noble adj metal\$3) or (precious adj metal\$3) or	32	L5		
L4	platinum or pt or rhodium or rh or palladium or pd or gold or au or silver or ag) near3 (layer or film or coat\$6 or deposit\$6)	241482	L4		
L3	L1 and ((direct adj voltage) near10 (alternating adj voltage))	30	L3		
L2	L1 and ((direct adj voltage) near10 (alternating adj votlage)) (cataly\$10 or (noble adj metal\$3) or (precious adj metal\$3) or	0	L2		
L1	pltainum or pt or rhodium or rh or palladium or pd or gold or au or silver or ag) near3 (layer or film or coat\$6 or deposit\$6)	230804	L1		

END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 12:37:07 ON 04 SEP 2003)

FILE 'CPLUS' ENTERED AT 12:37:27 ON 04 SEP 2003

L1 21 S (DIRECT (A) VOLTAGE) (10A) (ALTERNATING (A) VOLTAGE)
L2 251 S (DIRECT (A) CURRENT) (10A) (ALTERNATING (A) CURRENT)

=>

=> d all 213

L2 ANSWER 213 OF 251 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1953:37122 CAPLUS

DN 47:37122

OREF 47:6276f-g

TI Electroplating nickel on aluminum. II. Influence of simultaneous use of
alternating current and direct current

AU Nishioka, Shintaro; Ishiguro, Takayoshi; Makino, Toshio

CS Shizuoka Univ., Hamamatsu

SO Kogyo Kagaku Zasshi (1951), 54, 489-90
CODEN: KGKZA7; ISSN: 0368-5462

DT Journal

LA Unavailable --

CC 4 (Electrochemistry)

AB cf...C.A. 47, 5820h. Electroplating of Ni on Al is improved by the
superposition of a.c. on d.c. The optimum ratio for current efficiency
and plating is found to be d.c.: a.c. = 10: 1, the voltage being the
same.)

Similar improvement is also observed in using high-frequency a.c.

IT Ions
(electrolytic, exchange of, in electroplating)

IT Electroplating
(ion exchange in)

IT 7440-02-0, Nickel
(electroplating with, on Al, a.-c. effect on)

IT 7429-90-5, Aluminum
(nickel electroplating on, a.-c. effect on)

Current

=> d all 189

L2 ANSWER 189 OF 251 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1963:31374 CAPLUS
DN 58.31374
OREF 58:5259g-h
TI Electrodeposition of bright copper with an **alternating current** superimposed on the **direct current**
AU Bek, R. Yu.; Gamburg, Yu. D.; Kudryavtsev, N. T.
CS D. I. Mendeleev Chem.-Technol. Inst., Moscow
SO Zhurnal Fizicheskoi Khimii (1962), 36, 2244-5
CODEN: ZFKHA9; ISSN: 0044-4537
DT Journal
LA Unavailable
CC 15 (Electrochemistry)
AB The electrolyte contained CuSO₄.5H₂O 200 and H₂SO₄ 100 g./l. The Ni base was deposited on tinplate from an electrolyte contg. NiSO₄.7H₂O 170, H₃BO₃ 30, KCl 12, and naphthalenedisulfonic acid 6 g./l., pH = 4.6, at 18-25.degree.. The best results were obtained with a Ni base 7-8 .mu. thick deposited at 13-17 ma./sq. cm. at 18.degree. and = 21 ma./sq. cm.
at 25.degree.. X-ray analysis showed that the Ni in this film was oriented by the (011) axis. At Da.c./Dd.c. .1toreq. 1 (D is c.d.), the deposited Cu did not differ from that obtained with d.c. alone. The most uniformly bright Cu was obtained with Da.c./Dd.c. = 1.0-1.15. Changing the c.d. of d.c. from 3 to 10 amp./sq. dm. did not affect the quality of the deposit. X-ray analysis of the deposited Cu showed that it was oriented along the (125) axis.
IT Electric current
 (copper bright electroplating with alternating, superimposed on d.c.)
IT Ionization
 (of isoquinoline, pyridine and quinoline complexes with metals in thionyl chloride)
IT Crystals
 (orientation of, of Cu electrodeposits from a.c. superimposed on d.c.)
IT 7440-50-8, Copper
 (electrodeposition or electroplating of, with a.c. superimposed on d.c.)

=>

Current

=> d all 145

L2 ANSWER 145 OF 251 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1974:498660 CAPLUS
DN 81:98660
TI Electrodeposition of nickel from Watts type bath
IN Shenoi, Balkunje A.; Subramanian, Ramachandra; Srinivasan, Venkataraman;
Balasingh, Chelliah
PA Council of Scientific and Industrial Research (India)
SO Indian, 7 pp.
CODEN: INXXAP
DT Patent
LA English
CC 77-6 (Electrochemistry)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 101930		19680323	IN 1965-101930	19651008

AB A combination of d.c./a.c. with current ratio 7:1 to 1:1 and time cycle ratio. 5:1 to 1:1 is used. Thus, plating was done at 35-50.degree. and pH 3.5 in a bath contg. NiSO₄ 300, NiCl₂ 52, and H₃BO₃ 30 g/l. with a d.c./a.c. current ratio 7:6, and time cycle ratio 4:1 to give in 20 min 0.004 in. thick deposit free from nodules or surface roughness.
ST nickel electroplating Watts bath; alternating direct current plating nickel; level electroplate nickel
IT Electric current
(alternating-direct, in plating of smooth nickel)
IT 7440-02-0, uses and miscellaneous
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(electroplating of, from Watts type bath, **alternating current/direct current in**)

=>

Current

=> d all 123

L2 ANSWER 123 OF 251 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1983:42942 CAPLUS
DN 98:42942
TI Electroplating of thin films of iron-nickel alloys: some effects of superimposed **alternating current** on **direct current**
AU Srimathi, S. N.; Sheshadri, B. S.; Mayanna, S. M.
CS Cent. Coll., Bangalore Univ., Bangalore, 560001, India
SO Surface Technology (1982), 17(3), 217-27
CODEN: SUTED8; ISSN: 0376-4583
DT Journal
LA English
CC 72-8 (Electrochemistry)
Section cross-reference(s): 77
AB The effects of superimposing square, sine and triangular a.c. on a d.c. during the electroplating of thin films of Fe-Ni alloys in acidic and alk. citrate baths under various plating conditions were studied. The compn. of the alloys depends on the ratio of a.c. to d.c., the a.c. frequency and the waveform. The effect of the a.c. diminished with increase in the frequency and the a.c. to d.c. ratio. In addn., the effects of pH and temp. on the alloy compn. are also reported. The a.c. slightly shifted the cathodic polarization towards the noble direction and decreased the grain size, resulting in smooth and bright deposits. A plausible mechanism for the action of the a.c. is proposed.
ST iron nickel electroplating alternating current; current alternating superimposed direct electroplating; citrate bath iron nickel electroplating
IT Electric current
 (alternating, superimposed, in electroplating, of iron-nickel alloys in acidic and alk. baths)
IT 11135-48-1 84178-18-7
RL: PRP (Properties)
 (electroplating of, in acidic and alk. citrate baths, effects of superimposed a.c. on d.c. in)
IT 77-92-9, uses and miscellaneous
RL: USES (Uses)
 (in electroplating, of iron-nickel alloys, effects of superimposed a.c. on d.c. in)

Current

Patent Assignment Abstract of Title

Total Assignments: 1**Applicant #:** 09937377**Filing Dt:** 02/13/2002**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** NONE**Pub Dt:****Inventors:** Andreas Berginger, Peter Britz, Ellen Dahlhoff, Wolfgang Holderlich, Martin Schneider, Gabriele Stab, Peter Urban**Title:** Method for producing a catalyst**Assignment: 1****Reel/Frame:** 012645/0854 **Received:** 03/11/2002**Recorded:**
02/13/2002**Mailed:**
05/02/2002**Pages:** 4**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Exec Dt: 10/23/2001
Exec Dt: 11/15/2001
Exec Dt: 11/26/2001
Exec Dt: 12/07/2001
Exec Dt: 12/19/2001
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Search Results as of: 9/4/2003 3:29:53 P.M.

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 Web interface last modified: Oct. 5, 2002

Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 09944148 **Filing Dt:** 09/04/2001 **Patent #:** NONE **Issue Dt:**
PCT #: NONE **Publication #:** 20020052292 **Pub Dt:** 05/02/2002

Inventors: Ellen Dahlhoff, Wilm Eickelberg, Anett Funke

Title: Process for producing a catalytic converter and catalytic converter made by said process

Assignment: 1

Reel/Frame: 012466/0803 **Received:** 01/18/2002 **Recorded:** 01/09/2002 **Mailed:** 03/12/2002 **Pages:**

Conveyance: ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

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Search Results as of: 9/4/2003 3:30:21 P.M.

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